



## **Solar Gleissberg periodicities in relation to grand episodes**

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The solar Gleissberg cycle is not restricted to one single periodicity, as was assumed by its discoverer. Later, it was shown that there are at least two components, each of which dominating in another period of time. We connect this observation to an earlier finding, viz. that the occurrence of the Grand Episodes is related to the behaviour of the solar dynamo in connection to its so-called Transition Point: another Grand Episode starts when the curve defined by the proxies of the poloidal and toroidal magnetic field components has crossed or passed along the Transition Point's coordinates. Here, we present evidence that each Grand Episode is related to one or more specific components of the Gleissberg cycle; each of them with its own period length. This finding must have implications for our understanding of the dynamo mechanism